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~~Top Secret~~

[redacted]

25X1

Summary Report

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

PROBABLE MIG-17 (FRESCO) REFURBISHMENT/RETROFIT ACTIVITY AT NOVOSIBIRSK AIRFRAME PLANT 153 USSR

[redacted]

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SR-012/77
MARCH 1977
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Sensitive Intelligence Sources and Methods Involved
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NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
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Probable MIG-17 (FRESCO) Refurbishment/Retrofit Activity at Novosibirsk Airframe Plant 153, USSR

Novosibirsk may be involved in a program of refurbishing/retrofitting MIG-17 (FRESCO) aircraft, probably for shipment to Africa and the Middle East. This assumption is based on a detailed analysis of photography [redacted] 25X1
[redacted] of Novosibirsk Airframe Plant 153 [redacted], Kupino Airfield [redacted] 25X1
and Petrozavodsk Airfield Northwest [redacted] Figure 1). 25X1

Photographic evidence suggests that the FRESCO being used in this program are being supplied, at least in part, by the Soviet Aviation of Air Defense (PVO). The FRESCO is a subsonic clear-air-only interceptor that is being replaced throughout the PVO by newer supersonic aircraft. Kupino Airfield, a PVO base in the Novosibirsk Air Defense District, has recently received a regiment of SU-9 (FISHPOT) to replace its FRESCO unit. Petrozavodsk Airfield Northwest, a PVO base in the Arkhangelsk Air Defense District, has received a regiment of SU-15 (FLAGON), also to replace an aging FRESCO unit.

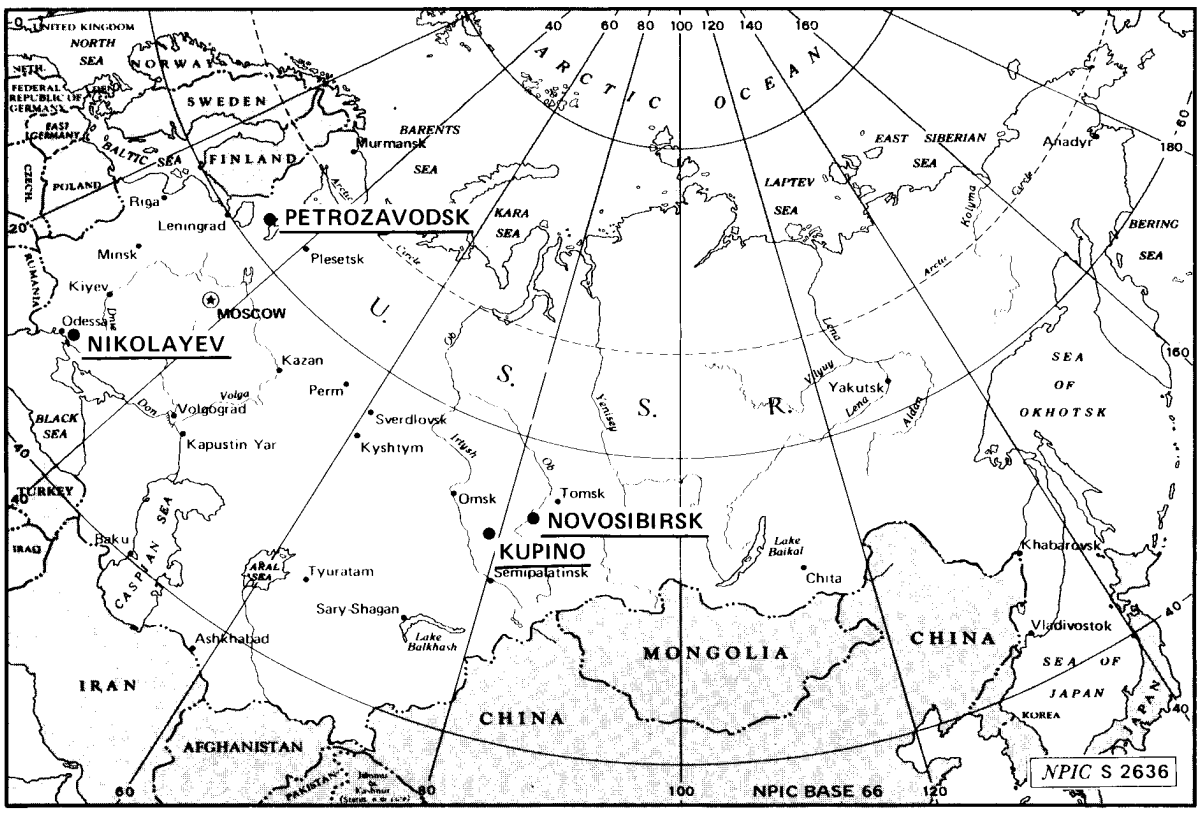

FIGURE 1. LOCATIONS OF PROBABLE FRESCO REFURBISHMENT/RETROFIT ACTIVITY, USSR

[redacted] 25X1

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The new Soviet FRESCO shipping container (Figure 2), described in the May 1975 USIB brief,* was identified at Kupino and Petrozavodsk simultaneously with the receipt of the new aircraft and was identified at Novosibirsk on photography 25X1

The new FRESCO container is similar in configuration (Figure 3) to the MIG-21 (FISHBED) type A shipping container, 25X1
has projections on each end. The original FRESCO shipping container was 25X1
and had no projections. The new FRESCO container was probably designed 25X1
to provide better protection for the aircraft it carries.

The new FRESCO container was identified at Kupino Airfield (Figure 4) on photography Nine containers were in the aircraft maintenance area 25X1
and three were in the storage area a FRESCO fuselage 25X1
was seen positioned in front of one container in the aircraft maintenance area.

The new FRESCO container was later identified at Petrozavodsk Airfield Northwest on photography Thirteen containers were positioned on the edge of the 25X1
main parking apron. FRESCO aircraft were parked in front of five containers.

Additional evidence that Kupino Airfield is supplying FRESCO to Novosibirsk was provided On that date, an AN-8 (CAMP; Soviet Bort 25X1
Number 55512) was parked on the main apron. The fuselage of a probable FRESCO was positioned under the tail section of the CAMP (Figure 5). At Novosibirsk 25X1

*USIB. CSB 75-1, *Sino-Soviet Arms Traffic*, May 75 (SECRET)

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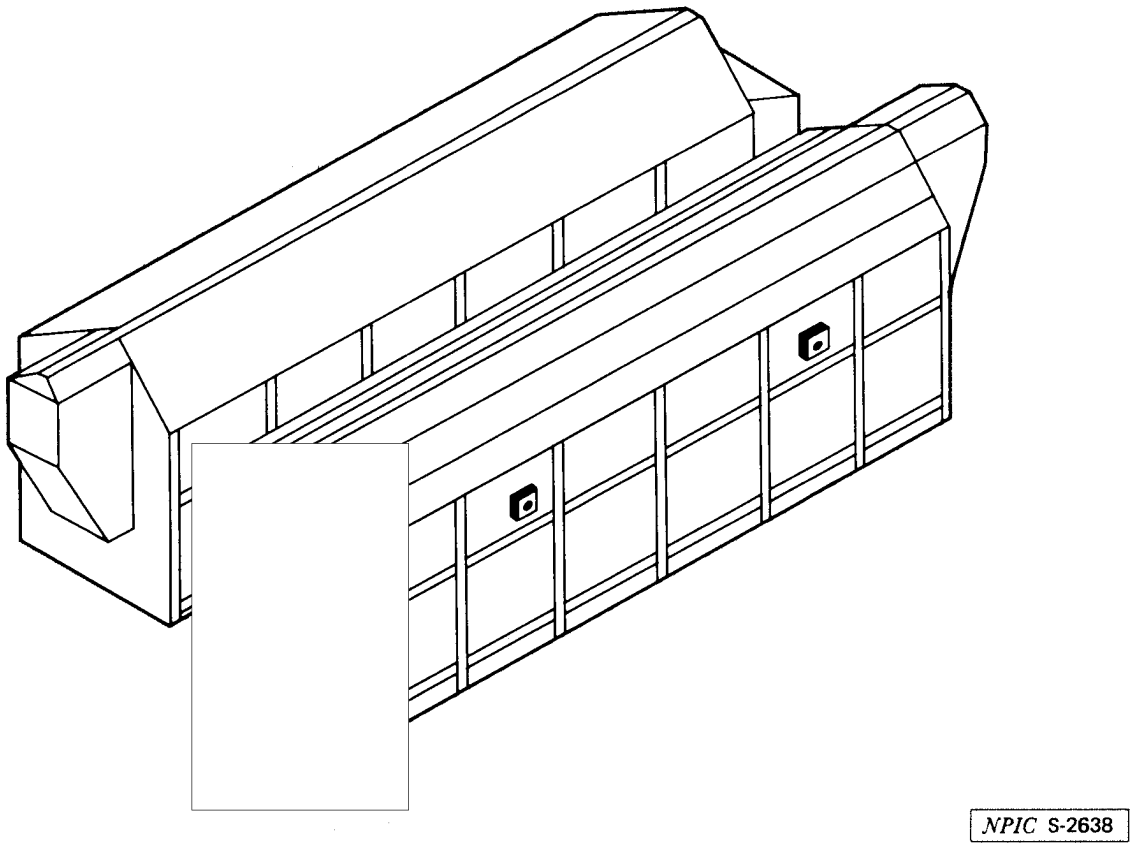

FIGURE 3. ARTIST'S CONCEPT OF NEW FRESCO SHIPPING CONTAINER

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[redacted], the same CAMP, identified by its Bort Number, was seen parked on an apron near the main plant which contains the new FRESCO shipping containers. 25X1

Although Novosibirsk does not have a history of Mikoyan fighter production, it is a logical choice for a small-scale refurbishment/retrofit program. The plant has a floorspace of 2.5 million square feet and, on the basis of photographic observations, has recently cutback its production of FLAGON and SU-19 (FENCER) aircraft.

FRESCO containers are being shipped from Nikolayev Port Facility South [redacted] 25X1
[redacted] the principal port from which Soviet-made arms are shipped to the Middle East and Africa. The new FRESCO containers are frequently seen on the quay and on flatcars in the rail yard. 25X1

The new FRESCO container has also been seen on photography at two airfields in Sudan. From photographic observations, other countries which have recently received shipments of FRESCO from the Soviet Union are Angola and Congo.

[redacted] 25X1

[redacted] 25X1

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List of Conversion Factors by Classification

UNITS OF LENGTH

IF YOU HAVE	*MULTIPLY BY*	*TO OBTAIN*
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

UNITS OF AREA

IF YOU HAVE	*MULTIPLY BY*	*TO OBTAIN*
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

UNITS OF MASS

IF YOU HAVE	*MULTIPLY BY*	*TO OBTAIN*
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

UNITS OF VOLUME

IF YOU HAVE	*MULTIPLY BY*	*TO OBTAIN*
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHELS	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHELS
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

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